



US 20080196602A1

(19) **United States**
(12) **Patent Application Publication**
Sands

(10) **Pub. No.: US 2008/0196602 A1**
(43) **Pub. Date: Aug. 21, 2008**

(54) **BLENDER AND JUICER SYSTEM**

Publication Classification

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(51) **Int. Cl.**
A23N 1/02 (2006.01)
B07B 1/00 (2006.01)
B02C 13/00 (2006.01)
B02C 17/00 (2006.01)
(52) **U.S. Cl. 99/513; 241/69; 241/185.6; 241/98**

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(57) **ABSTRACT**

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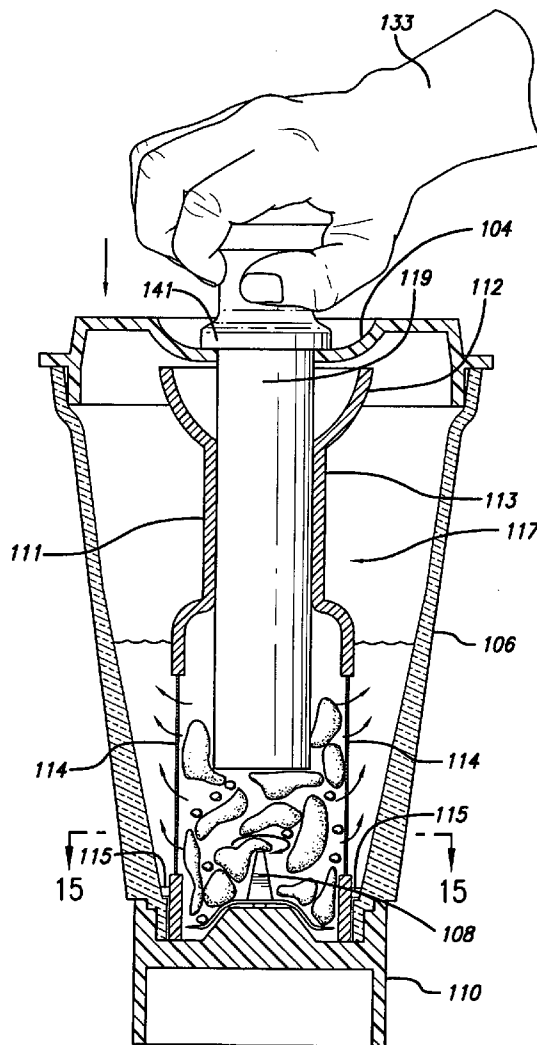
A blender and juicer system involving a blender container, having an open top and an open bottom, and a removable juicer member being open at each end and adapted for insertion into the blender container. The blender container is adapted to prevent the over-insertion of the removable juicer member. The inserted juicer member is adapted to engage operatively the interior of the blender container. The blender and juicer system also involves a plunger adapted for insertion into the juicer member. The inserted plunger is utilized during a juice extraction operation. The plunger includes a top exterior lip that defines the optimal range of plunger insertion into the juicer member.

(21) Appl. No.: **12/150,012**

(22) Filed: **Apr. 24, 2008**

Related U.S. Application Data

(63) Continuation of application No. 10/988,281, filed on Nov. 13, 2004, which is a continuation-in-part of application No. 10/649,757, filed on Aug. 26, 2003, now Pat. No. 6,817,750.



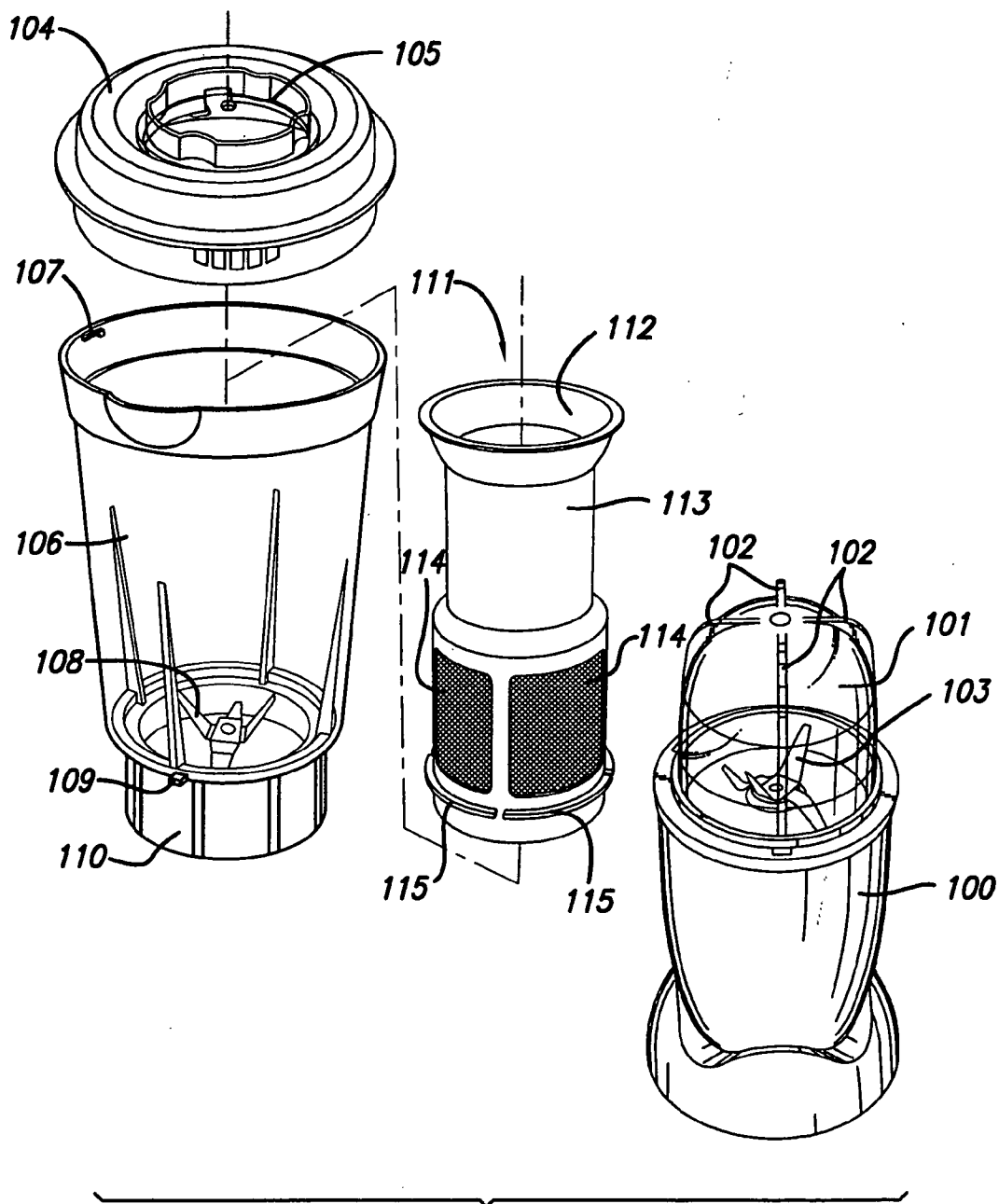


FIG. 1

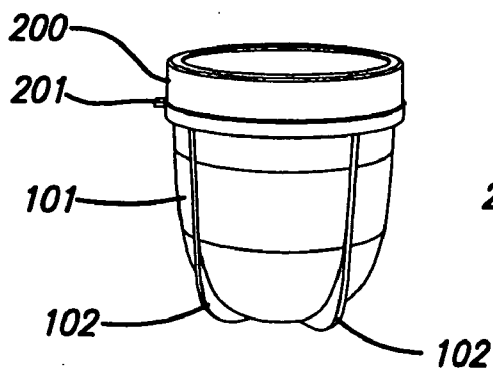


FIG. 2A

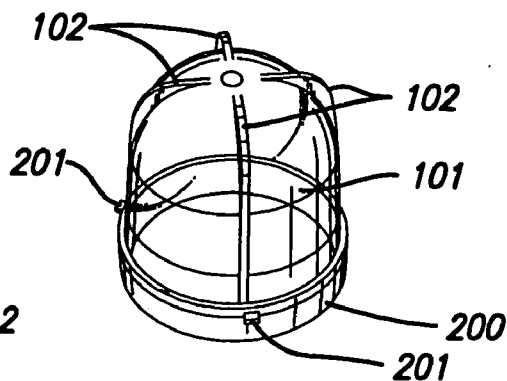


FIG. 2B

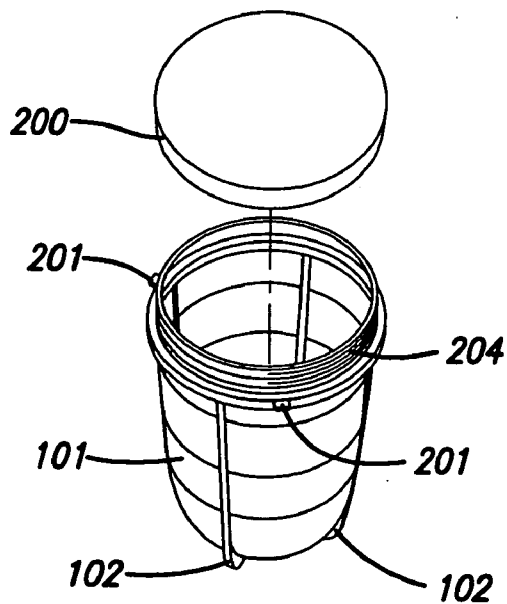


FIG. 2C

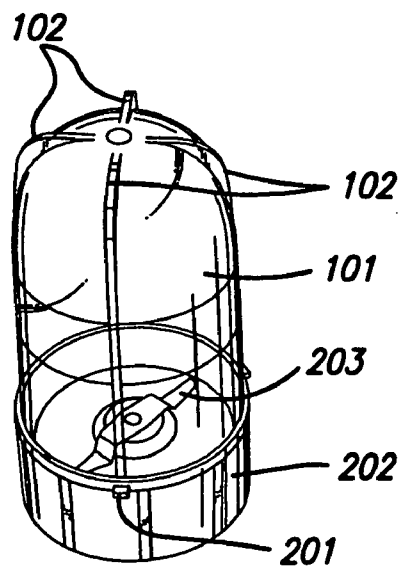


FIG. 2D

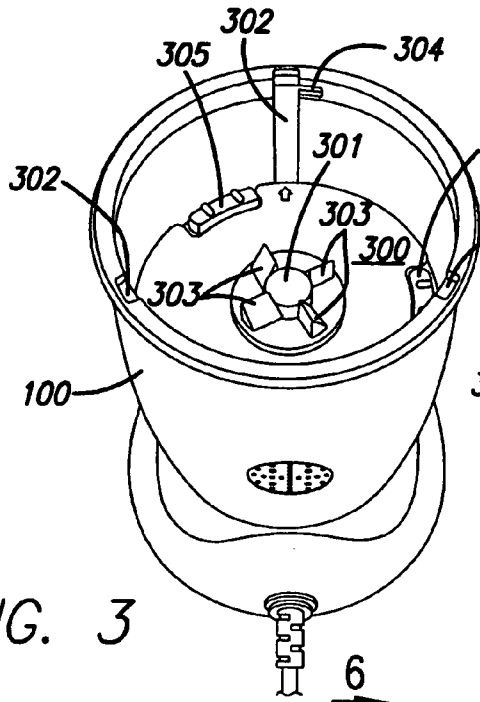


FIG. 3

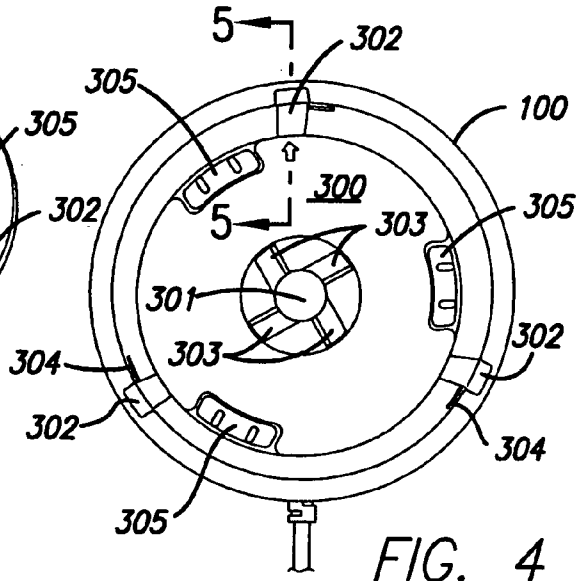


FIG. 4

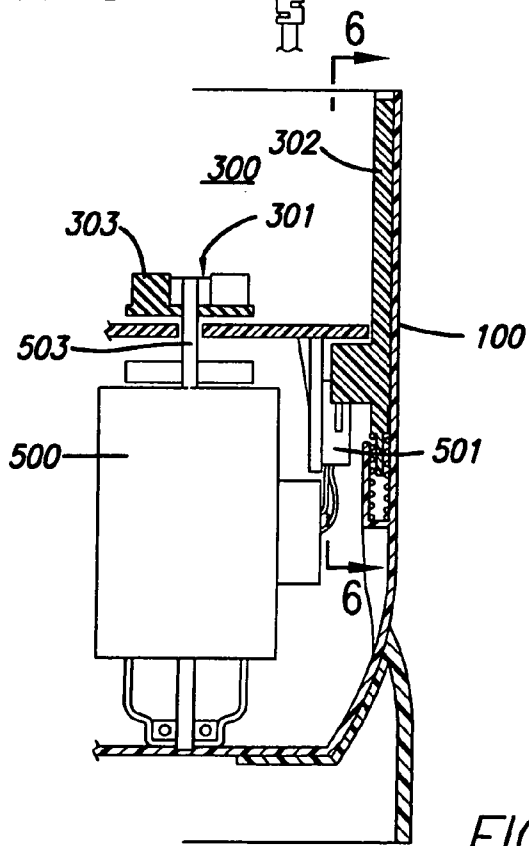


FIG. 5

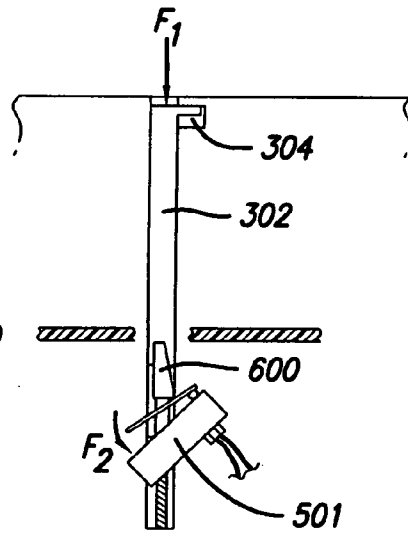


FIG. 6

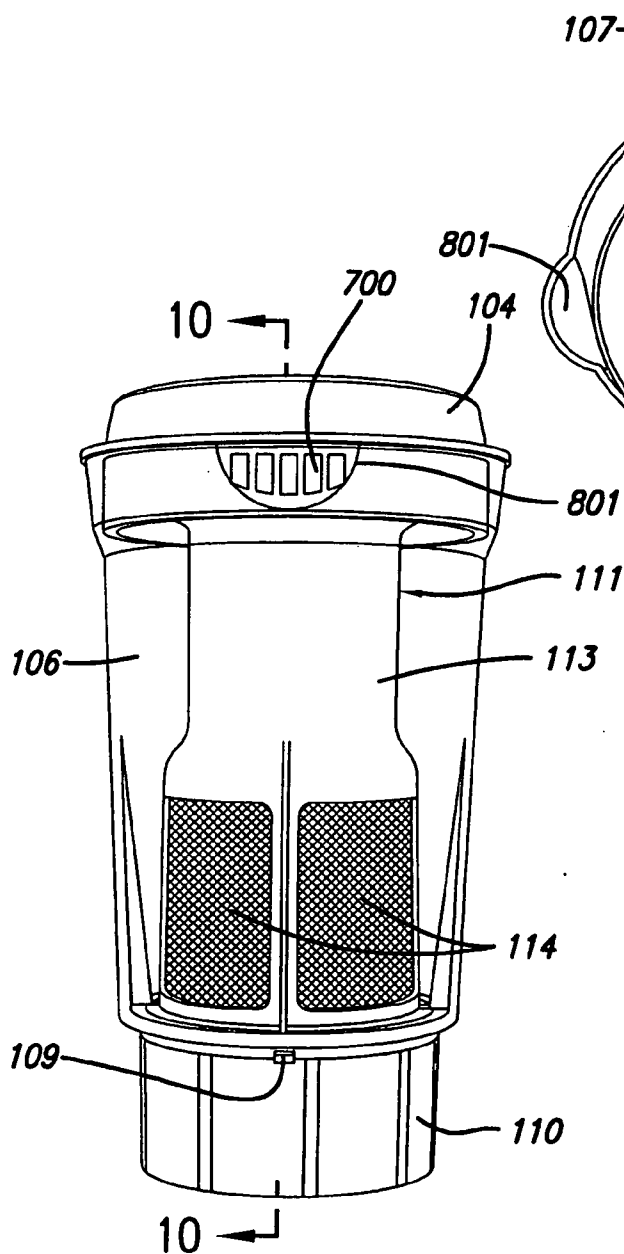


FIG. 7

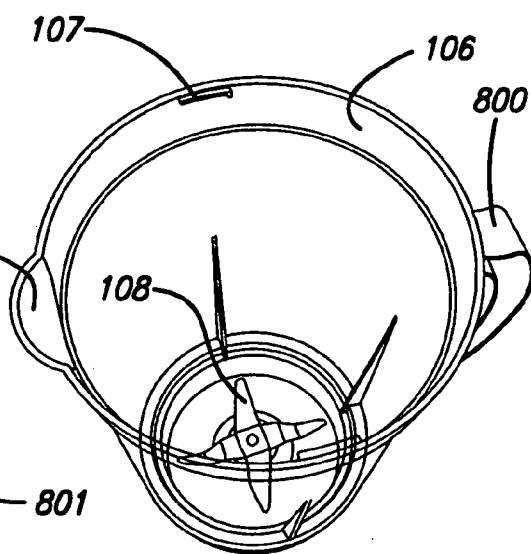


FIG. 8

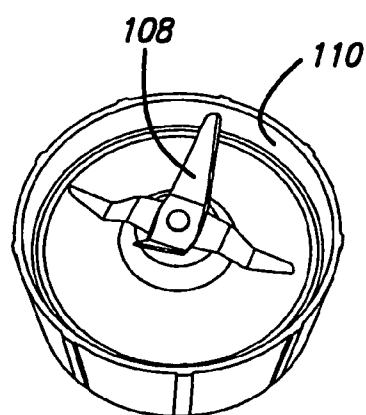


FIG. 9

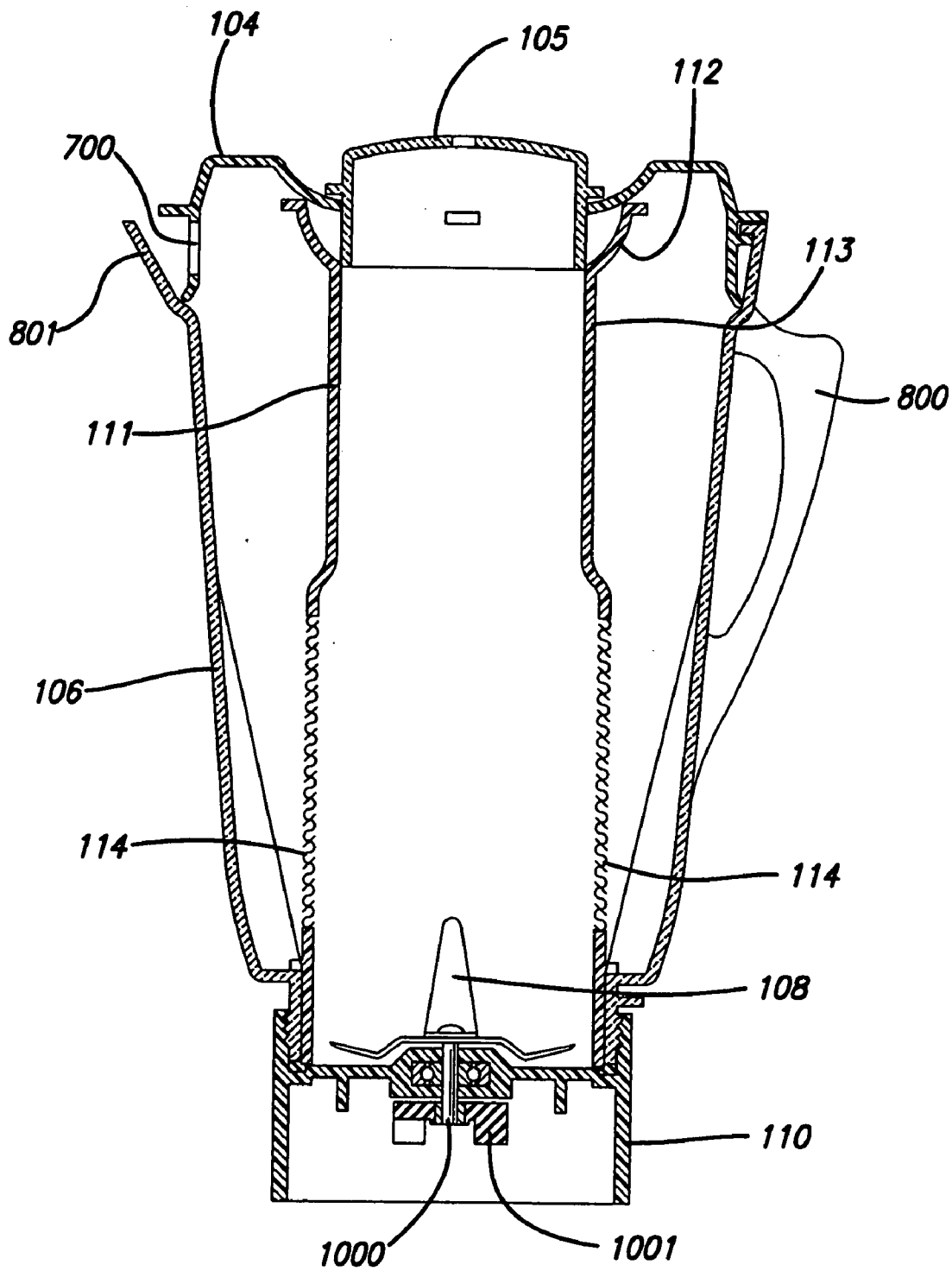


FIG. 10

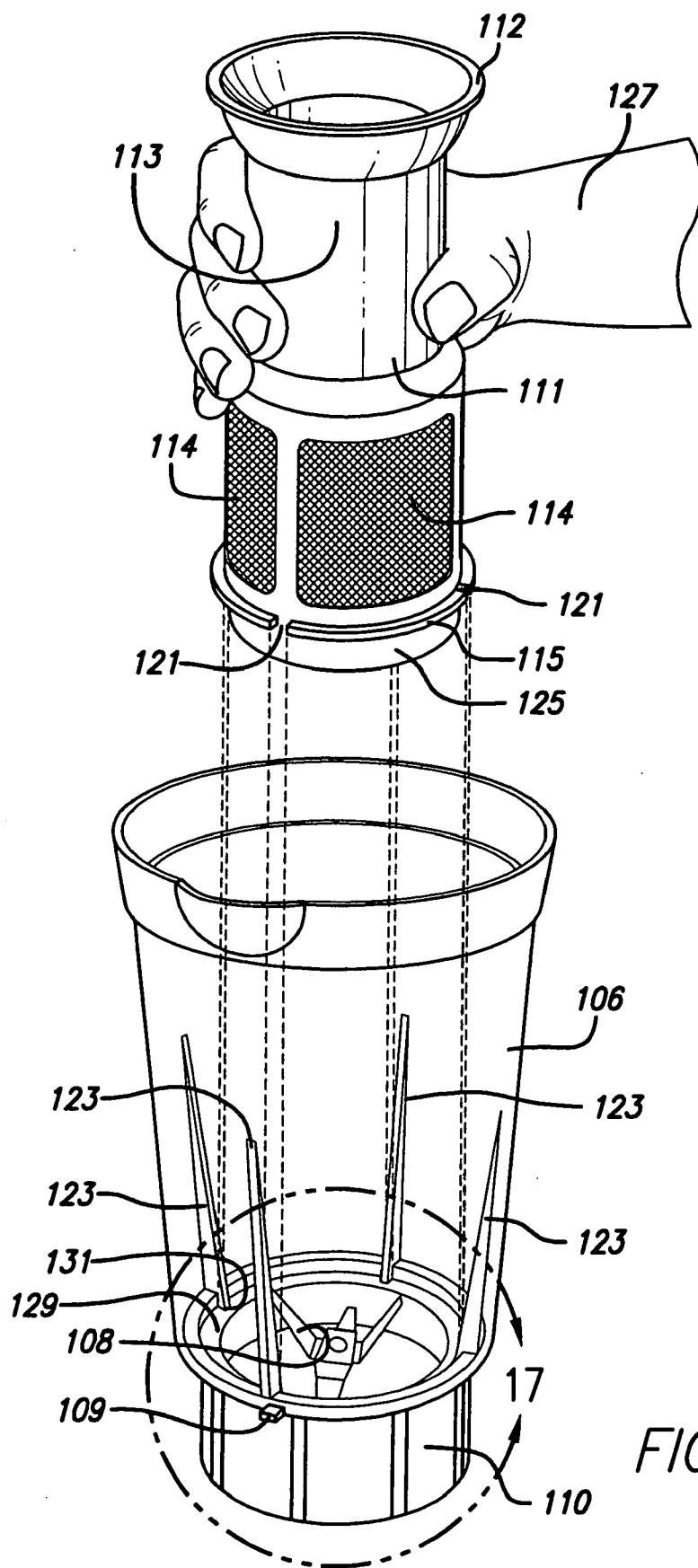
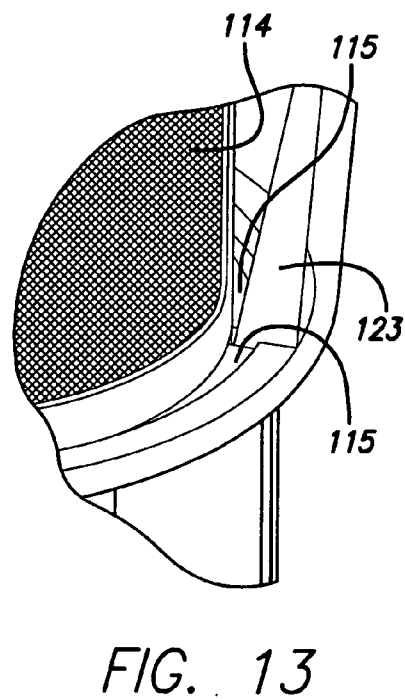
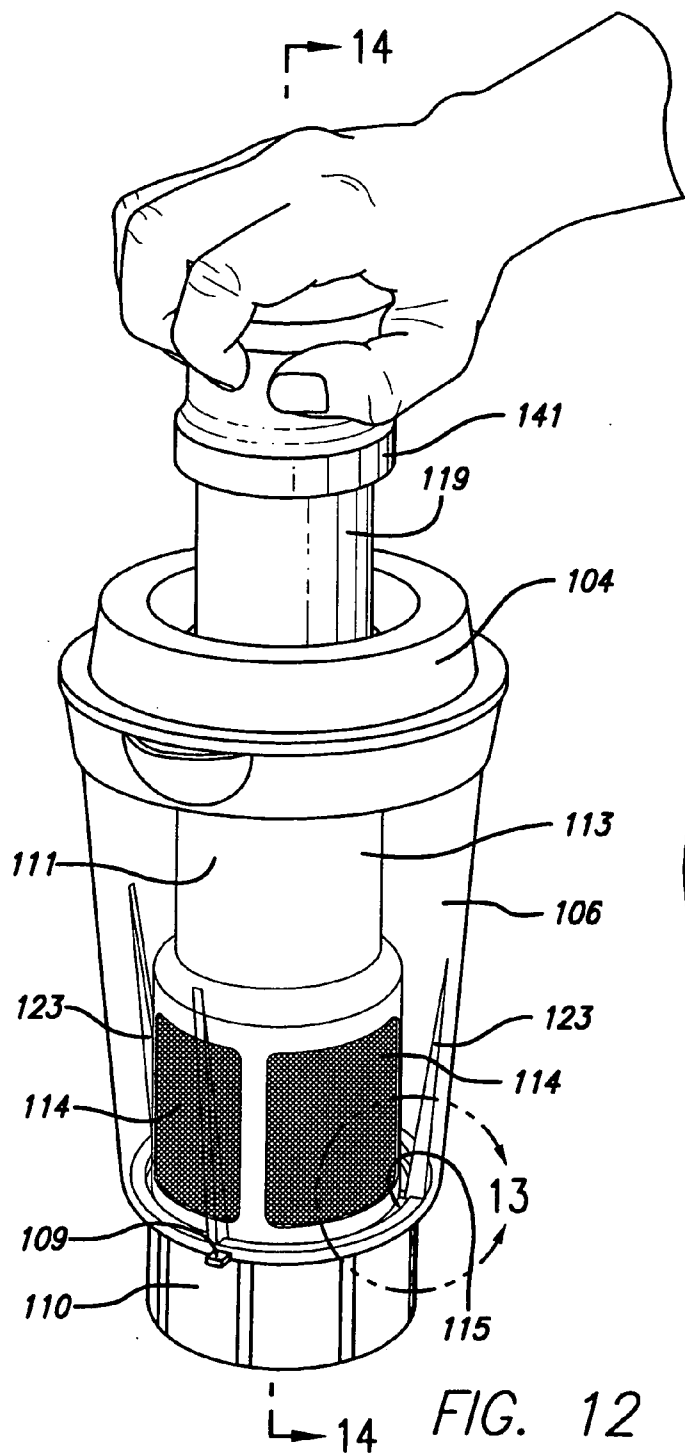


FIG. 11



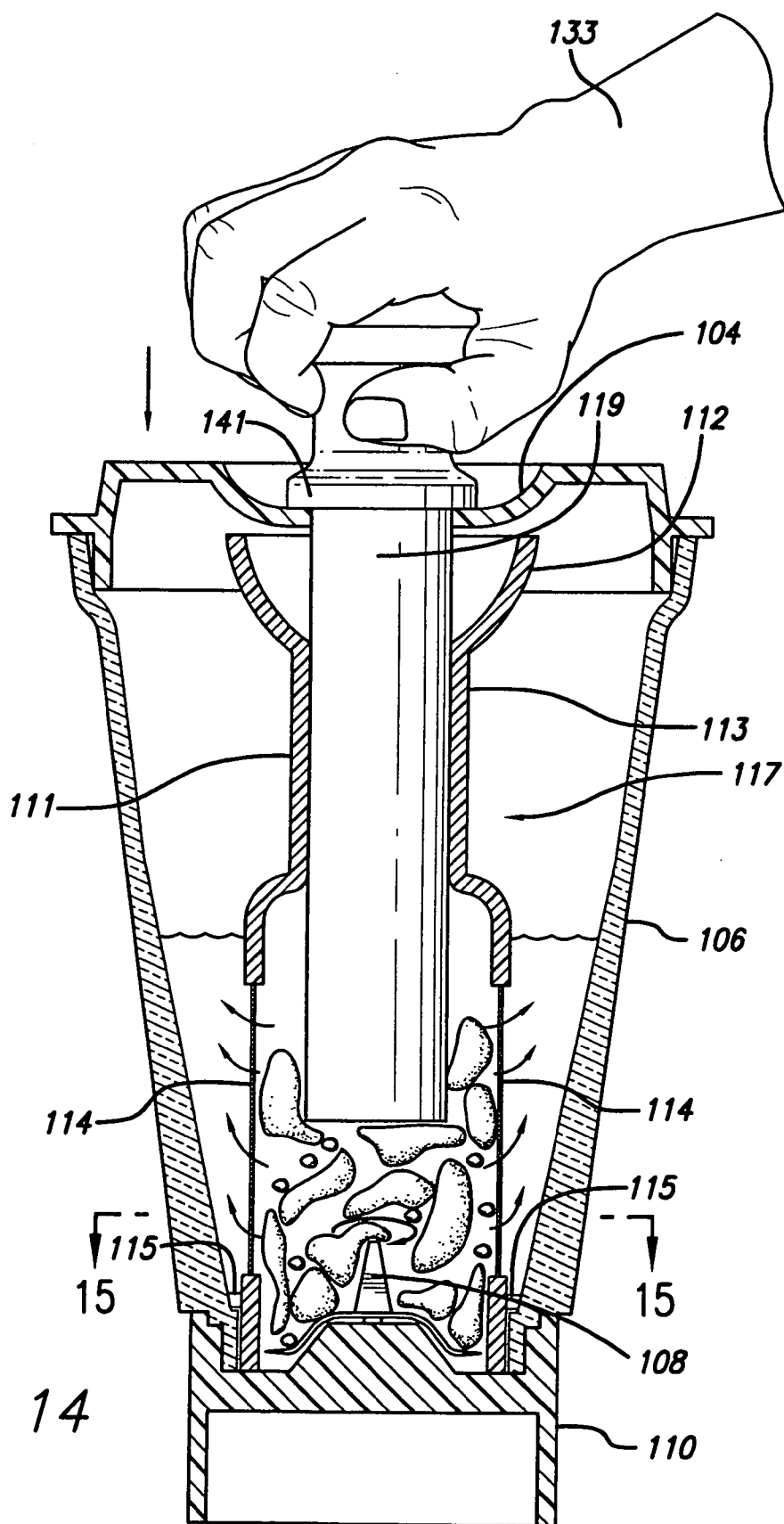


FIG. 14

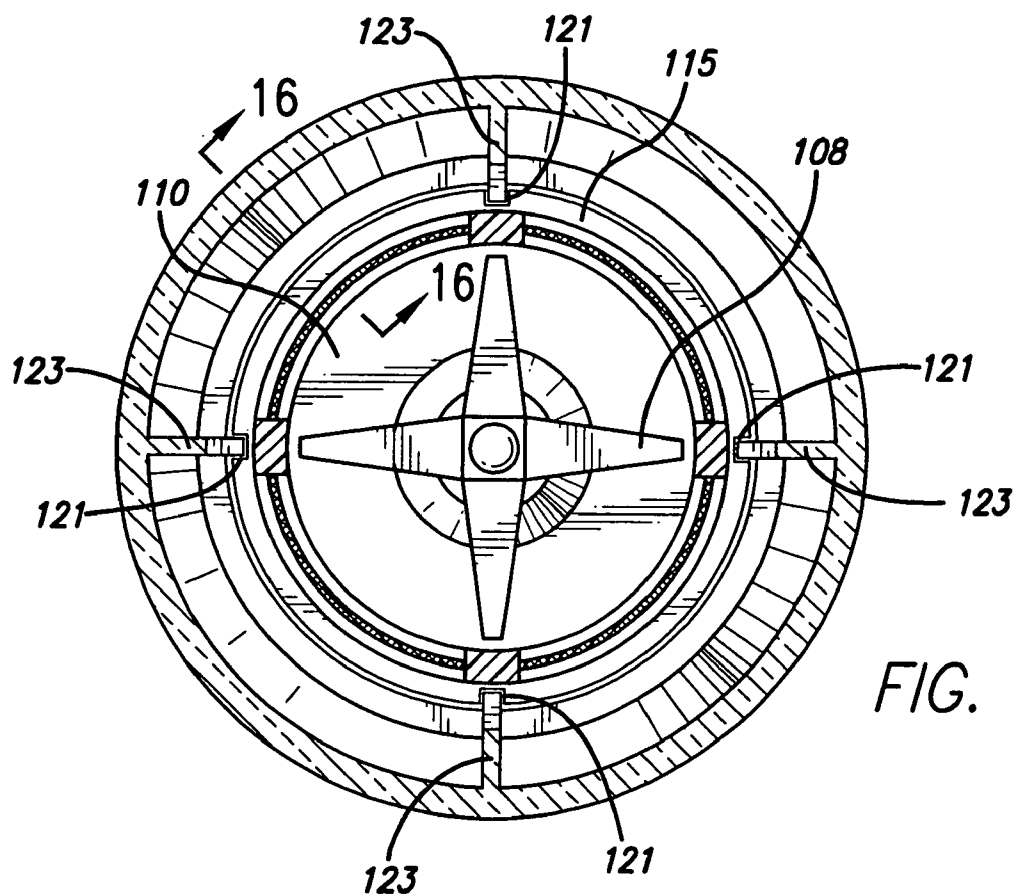


FIG. 15

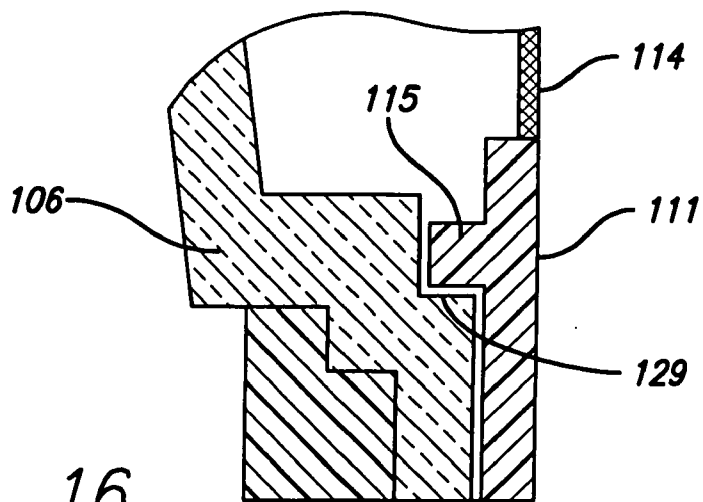


FIG. 16

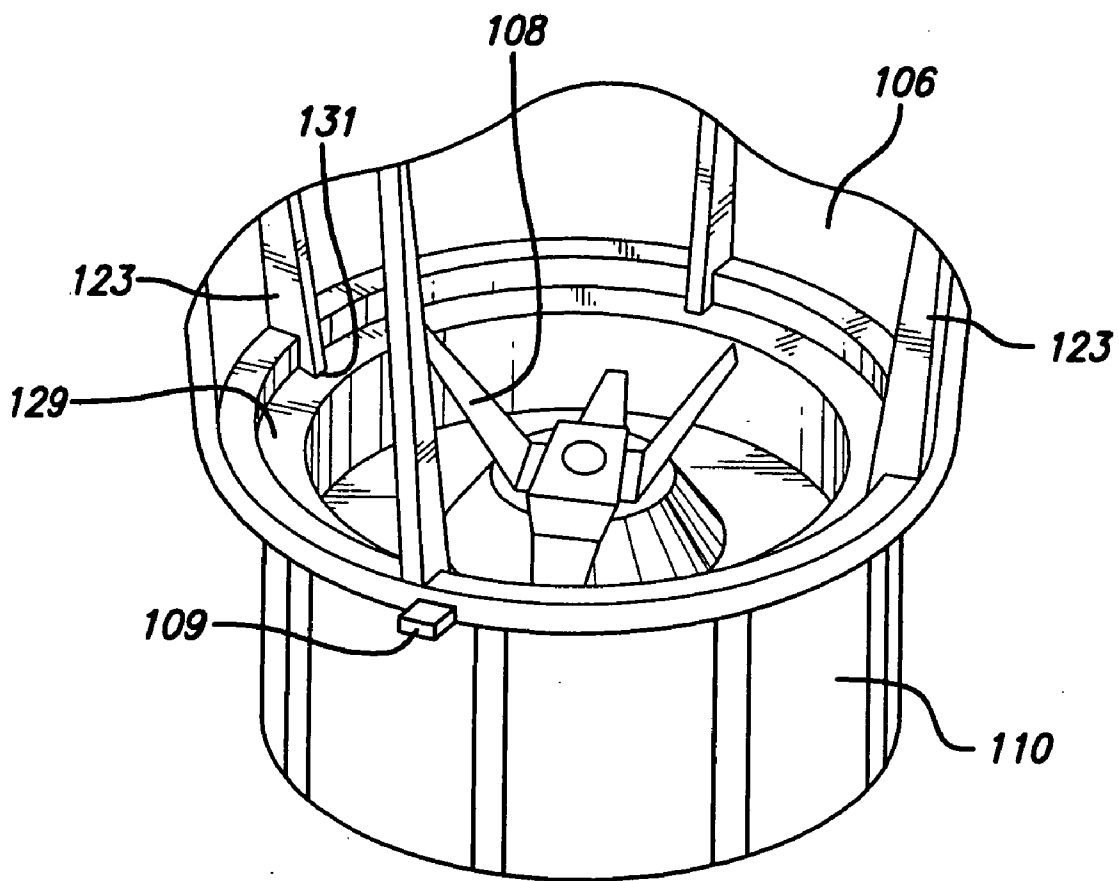


FIG. 17

BLENDER AND JUICER SYSTEM

CROSS-REFERENCE TO RELATED APPLICATION(S)

[0001] This document is a continuation application that is related to, and claims priority through, U.S. patent application Ser. No. 10/988,281, filed on Nov. 13, 2004, also entitled "Blender and Juicer System," that is, in turn, related to, and claims priority from, U.S. patent application Ser. No. 10/649,757, filed on Aug. 26, 2003, entitled "Individualized Blender," now issued as U.S. Pat. No. 6,817,750 on Nov. 16, 2004, all the subject matter of which are incorporated herein in their entirety by reference.

TECHNICAL FIELD

[0002] The present invention technically relates to household appliances. More particularly, the present invention technically relates to kitchen appliances. Even more particularly, the present invention technically relates to blenders and juicers.

BACKGROUND ART

[0003] Various devices for blending various liquids and solids have been developed over the years. These devices have various features and options to suit a wide variety of uses and applications. For example, many blenders exist that are either handheld or freestanding. While these devices have been useful, they can be difficult to clean, to use, and to store unused products, especially when preparing smaller batches. More specifically, freestanding devices can be too large and cumbersome to use for making smaller portions and are generally better designed for blending larger quantities of fluids and ingredients. Handheld units may be useful to make individualized portions, but they may lack the power to properly blend ingredients together. Furthermore, these handheld units are generally used with open containers such as bowls or cups that can increase the chances of spilling or splattering during preparation of the ingredients. Moreover, the unused portion would have to be poured out of the open container and into a sealable container to be stored or to be readily carried by a person. Accordingly, a long-felt need remains for a blender and juicer system that is easier to use, to clean, and to store unused products.

DISCLOSURE OF THE INVENTION

[0004] Exemplary embodiments disclosed herein are generally directed to a blender and juicer system. In accordance with one aspect of the invention, the blender and juicer system comprises a blender container, having an open top and an open bottom, and a removable juicer member being open at each end and being adapted for insertion into the blender container. The blender container is adapted to prevent the over-insertion of the juicer member. The inserted juicer member is adapted to operatively engage the interior of the blender container. The blender and juicer system also comprises a plunger being adapted for insertion into the juicer member. The inserted plunger is utilized during a juice extraction operation. The blender and juicer system further comprises a structure for defining the optimal range of plunger insertion into the removable juicer member. These and other aspects of the invention will become apparent from a review of the

accompanying drawings and the section entitled "Mode(s) for Carrying-Out the Invention," infra.

BRIEF DESCRIPTION OF THE DRAWING(S)

[0005] For a better understanding of the present invention, reference is made to the below-referenced description of the accompanying Drawing. Reference numbers refer to the same or equivalent parts of the present invention throughout the several figures of the Drawing.

[0006] FIG. 1 is a perspective view of a blender and juicer system, in accordance with an exemplary embodiment of the present invention.

[0007] FIG. 2A is a perspective view of a container for use as part of the blender and juicer system of FIG. 1, in accordance with the present invention.

[0008] FIG. 2B is an inverted perspective view of the container of FIG. 2A, in accordance with the present invention.

[0009] FIG. 2C is an exploded perspective view of the container of FIG. 2A, in accordance with the present invention.

[0010] FIG. 2D is a perspective view of another container for use as part of the blender and juicer system of FIG. 1, in accordance with the present invention.

[0011] FIG. 3 is a perspective view of a blender base for use as part of the blender and juicer system of FIG. 1, in accordance with the present invention.

[0012] FIG. 4 is a top plan view of FIG. 3, in accordance with the present invention.

[0013] FIG. 5 is a cross-sectional view taken along section line 5-5 of FIG. 4, in accordance with the present invention.

[0014] FIG. 6 is a cross-sectional view taken along section line 6-6 of FIG. 5, in accordance with the present invention.

[0015] FIG. 7 is a perspective view of a blender container equipped with a removable juicer member for use as part of the blender and juicer system of FIG. 1, in accordance with the present invention.

[0016] FIG. 8 is a top perspective view of the blender container of FIG. 7, in accordance with the present invention.

[0017] FIG. 9 is a top perspective view of a removable base for the blender container of FIG. 7, in accordance with the present invention.

[0018] FIG. 10 is a cross-sectional view taken along section line 10-10 of FIG. 7, in accordance with the present invention.

[0019] FIG. 11 is a perspective view of another exemplary embodiment of the present invention.

[0020] FIG. 12 is a perspective view of yet another exemplary embodiment of the present invention.

[0021] FIG. 13 is an enlarged detailed view taken along directional arc 13 of FIG. 12, in accordance with the present invention.

[0022] FIG. 14 is a cross-sectional view taken along section line 14-14 of FIG. 12, in accordance with the present invention.

[0023] FIG. 15 is a cross-sectional view taken along section line 15-15 of FIG. 14, in accordance with the present invention.

[0024] FIG. 16 is a cross-sectional view taken along section line 16-16 of FIG. 15, in accordance with the present invention.

[0025] FIG. 17 is an enlarged detailed view taken along directional arc 17 of FIG. 11, in accordance with the present invention.

MODE(S) FOR CARRYING-OUT THE INVENTION

[0026] The detailed description set forth below in connection with the appended drawings is intended as a description of exemplary embodiments, i.e., the modes of carrying-out the invention, and is not intended to represent the only forms in which the exemplary embodiments may be constructed and/or utilized. The description sets forth the functions and the sequence of steps for constructing and operating the exemplary embodiments in connection with the illustrated embodiments. However, understood is that the same or equivalent functions and sequences may be accomplished by different embodiments that are also intended to be encompassed within the spirit and scope of the invention.

[0027] Some embodiments of the invention will be described in detail with reference to the related drawings of FIGS. 1-17. Additional embodiments, features and/or advantages of the invention will become apparent from the ensuing description or may be learned by practicing the invention. In the figures, the drawings are not to scale; however, like numerals refer to like features throughout both the drawings and the description.

[0028] Turning to the drawings, FIG. 1 generally depicts a blender and juicer system comprising a generally bullet-shaped container 101 operatively coupled to a blender base 100, a juicer member 111 being open at each end, and a blender container 106 adapted to receive juicer member 111. The bullet-shaped container 101 includes a plurality of generally arcuate ridges 102 provided symmetrically on its outer surface, as generally illustrated in reference to FIGS. 1-2D. For purposes of this application, the term "blender" is generally defined as a device having whirling blades for chopping, mixing, or liquefying foods.

[0029] The blender container 106 has an open top and an open bottom. The blender container 106 includes selectively removable lid members 104, 105 (FIG. 1). The lid member 104 may be partially open to provide access to the interior of blender container 106. The lid member 105 may be coupled to the lid member 104 to cut off access to the interior of the blender container 106. The lid member 104 may be locked on to the open top of the blender container 106 via a cap-locking member 107. The cap-locking member 107 may be implemented, for example, as a generally L-shaped ridge disposed at the lip of blender container 106 (FIG. 1). The cap-locking member 107 engages a corresponding locking member (not shown) on the lid member 104 to securely lock the same to the blender container 106. Other suitable lid configurations may be utilized, as needed, such as a one-piece, a multi-piece lid cap, and/or the like.

[0030] The open bottom of blender container 106 may be coupled to a removable base portion 110 (FIG. 1) incorporating a blade member 108 (FIG. 1) adapted to agitate the contents of the container 106. The blade member 108 is operatively coupled to an impeller powered by a blender motor of the type generally shown in FIG. 5. The blade member 108 may include one, two, three, four or more cutting elements, as needed. The cutting elements may be generally flat members with sharpened edges, pointed tips, and one or more bends along the surface of the cutting elements.

[0031] The removable base portion 110 may be affixed to the bottom of blender container 106 via a thread-fit, a friction fit, a snap-fit, or any other suitable type of attachment. The open bottom of the blender container 106 is provided with a plurality of lateral (exterior) locking members 109, as generally shown in FIGS. 1, 7, and 11-12. The locking members 109 are adapted to operatively lock the blender container 106 to a blender base of the type generally shown in FIGS. 3-6.

[0032] FIGS. 2A-2D generally illustrate various configurations of the bullet-shaped container 101 which may be adapted for small or large servings to be prepared/consumed by one and/or a few individuals. FIG. 2A generally shows the bullet-shaped container 101 resting on the external ridges 102 allowing users convenient access to its interior. For example, the bullet-shaped container 101 may be used as a drinking vessel. The external ridges 102 are generally shaped as being generally arcuate to permit the bullet-shaped container 101 to rest on its apex without tipping. The number of external ridges may be varied, as needed, as long as the bullet-shaped container 101 can stand upright on a substantially flat surface.

[0033] In another example, the user may blend the contents of the bullet-shaped container 101, detach the bullet-shaped container 101 from the blender base 100, access the contents of the bullet-shaped container 101 with the bullet-shaped container 101 standing upright (FIG. 2A) on a flat surface, and store the contents for later use using a cap 200 (FIGS. 2A-2C). The cap 200 may be affixed to the opening of the bullet-shaped container 101 via threads 204 (FIG. 2C). The cap 200 may also be affixed to the bullet-shaped container 101 via friction fit, snap-fit or other suitable type of attachment. Once the cap 200 is affixed, the bullet-shaped container 101 may be inverted to rest on the cap 200, as generally depicted in FIG. 2B.

[0034] In an alternate configuration, the bullet-shaped container 101 may be adapted to hold a relatively larger volume. The bullet-shaped container 101 may include a removable base 202, having a blade member 203, as generally shown in FIG. 2D. Moreover, as generally shown in FIGS. 2A-2D, the bullet-shaped container 101 may be provided with locking members 201 that are spaced about the periphery of the bullet-shaped container 101. The locking members 201 allow the user 127 to operate the blender without requiring a constant application of force to the bullet-shaped container 101 (in order to keep the motor switched in the "on" position).

[0035] The blender base 100 includes a recessed well 300, as generally depicted in reference to FIGS. 3-4. The blender base 100 also includes a motor 500 (FIG. 5) that is operatively coupled to an impeller 301 (FIG. 3). The impeller 301 comprises a plurality of symmetrically disposed blades 303 radiating from the center of impeller 301. A plurality of bushings 305 (FIGS. 3-4) may be utilized about the periphery of recessed well 300. Alternatively, the blender base 100 may be adapted for use without utilization of the bushings 305. The bushings 305 may comprise a generally resilient material, such as, but not limited to, rubber, silicone, or the like, to reduce vibrations during agitation of the container contents.

[0036] The recessed well 300 comprises a plurality of pressure-activated switches 302 (FIGS. 3-4). The removable base 110 is adapted to fit within the recessed well 300 and to operatively couple with the impeller 301. While in use, the weight of the bullet-shaped container 101 or the blender container 106 causes the downward movement of the switches 302, thereby activating the motor 500. As generally shown in FIG. 3, a locking groove 304 may be provided

adjacent to the switch 302. Accordingly, in use, i.e., when the locking members 201 (FIGS. 2A-2C) contact and depress the respective switches 302, the bullet-shaped container 101 or the blender container 106 may be rotated by the user 127 to allow the locking members 201 to engage the respective locking grooves 304.

[0037] As generally depicted in FIG. 6, when a force F_1 is applied to the switch 302, the switch 302 moves downward, i.e., in the direction of the applied force F_1 . This downward movement causes a cam 600 on the switch 302 to contact a motor power switch 501, thereby powering the blender motor 500 (FIG. 5). Accordingly, depending on the intended use or application, the bullet-shaped container 101 or the blender container 106 may be depressed in order to activate the motor 500 (FIG. 5) for relatively short periods of time. Alternatively, the bullet-shaped container 101 or the blender container 106 may be depressed and rotated slightly to allow the locking members 201 to engage the respective locking grooves 304, thereby permitting continuous operation of motor 500, i.e., without requiring the user, e.g., the user 127, to exert constant pressure on the bullet-shaped container 101 or the blender container 106 to keep the motor 500 running.

[0038] The blender container 106 may be equipped with a removable juicer 117 (FIG. 14) comprising hollow juicer member 111 and a generally elongated plunger 119 adapted for insertion into juicer member 111 via a removable (and partially open) lid member 104, as generally illustrated in FIGS. 12 and 14. The juicer member 111 has a generally circular cross-section which varies somewhat in diameter from top to bottom, as generally shown in FIGS. 1, 7, 10-12, and 14. The plunger 119 (FIGS. 12 and 14) may be configured as a solid body. Alternatively, the plunger 119 comprises a partially hollow configuration, such as being closed at the bottom and open at the top. This type of plunger configuration may be appropriate for measuring foodstuffs and the like. Other suitable plunger configurations may be utilized, if necessary.

[0039] The juicer member 111 includes a generally tubular body 113 of variable diameter being equipped at one end with a multi-panel sieve filter 114 and a funnel 112 at an opposite end, as generally depicted in FIG. 11. The tubular body 113 includes a base portion 125 (FIG. 11) disposed downstream from filter 114. The base portion 125 comprises a generally annular outer lip 115 (FIG. 11) which includes a plurality of indentations 121 adapted to removably engage a corresponding set of generally elongated ridges 123 being integrally formed on the interior of the blender container 106, as generally illustrated in FIG. 11.

[0040] Each one of the ridges 123 has a generally triangular cross-section that flares toward the removable base portion 110 (FIG. 11). Each indentation 121 is configured to somewhat loosely engage a respective ridge 123 as the juicer member 111 is inserted into the blender container 106 by a user 127 (FIG. 11). To prevent over-insertion of the juicer member 111, the blender container 106 comprises an inwardly protruding internal step 129 (FIGS. 11, 16-17) being adapted to stop the advance of the outer lip 115 (FIG. 16). The internal step 129 extends under and away from the base portions 131 of the ridges 123 into the interior of the blender container 106, thereby allowing the outer lip 115 to securely rest on top of it, as generally depicted in FIGS. 11 and 16-17.

[0041] The user 127 inserts juicer member 111 with the indentations 121 being generally lined up with the respective

ridges 123 to ensure proper operation of juicer 117, as generally illustrated in FIG. 11-14. The blade member 108 is operatively disposed within the base portion 125 and the filter 114 (of juicer member 111) when the juicer member 111 is supported by the internal step 129 and the removable base portion 110 is affixed to the blender container 106. The indentations 121 may be adapted to afford a certain degree of lateral movement of the outer lip 115 of the juicer member 111 within the blender container 106, i.e., generally toward/away from the respective ridges 123, when the juicer member 111 is supported by the internal step 129.

[0042] A multi-panel sieve filter 114 may comprise a wire mesh screen material or the like. The filter 114 generally conforms to the shape of the tubular body 113, as generally shown in FIGS. 1, 7, and 11-12. The filter 114 is adapted to strain juice being generated (within hollow juicer member 11) by a user 133 pushing fruit and/or vegetable fragments generally downward (toward the base portion 110) via the plunger 119 when the blade member 108 is operative, as generally illustrated in FIG. 14.

[0043] The opening provided by the removable lid member 104 is adapted to accommodate the plunger 119, as generally shown in FIG. 12. The plunger 119 includes a top exterior lip 141 (FIGS. 12 and 14) which is adapted to contact the interior of the funnel 112 (FIG. 14) and to prevent the plunger 119 from advancing further into the tubular body 113 during the juice 15 extraction operation. The top exterior lip 141 defines the optimal range of plunger insertion into the tubular body 113. The plunger 119 and the rotating blade member 108 force the generated juice to flow from the interior of the tubular body 113 into the interior of the blender container 106 (FIG. 14), where it is collected for consumption by the user 133. The blender motor 500 transmits a rotational force to the blade member 108 via a motor shaft 1000 and a mating impeller 1001, as generally depicted in FIG. 10.

[0044] The remaining pulp is separated and trapped within the interior of the juicer member 111. By providing a two-part cap, such as implemented by the lid members 104, 105 of FIG. 1, users, e.g., users 133, can access the contents of the juicer member 111 without removing the entire cap or interrupting the operation of the blender for fear of spillage or splattering. For example, the user, e.g., the user 133, may remove the lid member 105 to add more food fragments to the juicer member 111 for juice extraction.

[0045] The lid member 104 may be provided with a plurality of slots 700 (FIG. 7) to decant the contents of the blender container 106 while the lid member 104 remains affixed to the top of the blender container 106. The blender container 106 may include a handle 800 and a spout 801 that facilitates decanting of the contents of the blender container 106, as generally depicted in FIG. 8. The lid member 104 is affixed to the top of the blender container 106 with slots 700 being disposed generally behind the spout 801 to allow decanting of extracted juice, as generally shown in FIG. 7. Once all the extracted juice has been decanted from the fruit and/or vegetable fragments, the user 133 may remove the plunger 119, the lid member 104, the juicer member 111, and the base portion 110 from the blender container 106 for cleaning.

[0046] Information, as herein shown and described in detail, is fully capable of attaining the above-described object of the invention. The presently preferred embodiment of the invention, is, thus, representative of the subject matter which is broadly contemplated by the present invention. The scope of the present invention also fully encompasses other embodi-

ments which may become obvious to those skilled in the art, and is to be limited, accordingly, by nothing other than the appended claims, wherein reference to an element in the singular is not intended to mean “one and only one” unless explicitly so stated, but rather “one or more.” All structural and functional equivalents to the elements of the above-described preferred embodiment and additional embodiments that are known to those of ordinary skill in the art are hereby expressly incorporated by reference and are intended to be encompassed by the present claims.

[0047] Moreover, no requirement exists for a device or method to address each and every problem that is sought to be resolved by the present invention, for such to be encompassed by the present claims. Furthermore, no element, component, or method step in the present disclosure is intended to be dedicated to the public, regardless of whether the element, component, or method step is explicitly recited in the claims. However, that various changes and modifications, in form, material, and fabrication material detail, may be made, without departing from the spirit and scope of the invention as set forth in the appended claims, should be readily apparent to those of ordinary skill in the art as being encompassed by the present invention. No claim herein is to be construed under the provisions of 35 U.S.C. §112, sixth paragraph, unless the element is expressly recited using the phrase “means for.”

INDUSTRIAL APPLICABILITY

[0048] The present invention industrially applies to household appliances. More particularly, the present invention industrially applies to kitchen appliances. Even more particularly, the present invention industrially applies to blenders and juicers.

What is claimed:

1. A blender and juicer system, comprising:
 a blender container having an open top and an open bottom;
 a removable juicer member, being hollow, having a top end and a bottom end, being open at each end, and being adapted for insertion into the blender container, the blender container being adapted to prevent over-insertion of the removable juicer member, and the removable juicer member being adapted to operatively engage the interior of the blender container;
 a plunger being adapted for insertion into the removable juicer member, the plunger being utilized during a juice extraction operation;
 means for defining the optimal range of plunger insertion into the removable juicer member; and
 a set of elongated ridges being integrally formed on the interior of the blender container,
 wherein the removable juicer member comprises an outer lip at one end,
 wherein the removable juicer member comprises a funnel at another end, the funnel having a convex curvature,
 wherein the outer lip includes a plurality of indentations configured to removably engage the set of elongated ridges,
 wherein the removable juicer member further comprises a filter disposed between the outer lip and the funnel,
 wherein the filter has a multi-panel sieve configuration,
 wherein the removable juicer member includes a substantially tubular body of variable diameter,
 wherein the multi-panel sieve filter substantially conforms to the shape of the tubular body, and

wherein the removable juicer member is configured to trap internally pulp remaining after a juice extraction operation.

2. The blender and juicer system of claim 1, wherein the blender container comprises an internal step to prevent the over-insertion of the removable juicer member, the internal step being adapted to support the outer lip upon engagement of the elongated ridges by the indentations.

3. The blender and juicer system of claim 1, wherein the optimal range defining means includes a top exterior lip on the plunger.

4. The blender and juicer system of claim 3, wherein the top exterior lip is adapted to contact the interior of the funnel and to prevent the plunger from advancing further into the removable juicer member during the juice extraction operation.

5. The blender and juicer system of claim 1, wherein the filter comprises a wire mesh screen material.

6. The blender and juicer system of claim 1, wherein the open top of the blender container is removably coupled with a first lid member, the first lid member having a partially open configuration.

7. The blender and juicer system of claim 6, wherein the partially open first lid member is configured to allow the plunger to advance into the removable juicer member during a juice extraction operation.

8. The blender and juicer system of claim 7, wherein the partially open first lid member is closed by a second lid member.

9. The blender and juicer system of claim 1, wherein the plunger has a partially hollow configuration.

10. The blender and juicer system of claim 1, wherein the open bottom of the blender container is removably coupled with a removable base portion incorporating a blade member adapted to agitate the contents of the blender container.

11. The blender and juicer system of claim 10, wherein the blade member is operatively coupled with an impeller being powered by a blender motor.

12. The blender and juicer system of claim 10, wherein each one of the elongated ridges has a substantially triangular cross-section flaring toward the removable base portion.

13. A blender and juicer system, comprising:

a first blender container with an open top and an open bottom;
 a removable juicer member being hollow, having a top end and a bottom end, being open at each end, and being adapted for insertion into the blender container, the blender container being configured to prevent the over-insertion of the removable juicer member, and the removable juicer member being configured to operatively engage the interior of the blender container;
 a plunger being adapted for insertion into the removable juicer member, the inserted plunger being utilized during a juice extraction operation;
 means for defining the optimal range of plunger insertion into the removable juicer member;
 a blender base;
 a second blender container with an open top and a closed bottom, the second blender container being operatively coupled with the blender base; and
 a set of elongated ridges being integrally formed on the interior of the first blender container,
 wherein the removable juicer member comprises an outer lip at one end,

wherein the removable juicer member comprises a funnel at another end, the funnel having a convex curvature, wherein the outer lip includes a plurality of indentations configured to removably engage the set of elongated ridges,

wherein the removable juicer member further comprises a filter between the outer lip and the funnel, wherein the filter has a multi-panel sieve configuration, wherein the removable juicer member includes a substantially tubular body of variable diameter, wherein the multi-panel sieve filter substantially conforms to the shape of the tubular body, and

wherein the removable juicer member is configured to trap internally pulp remaining after a juice extraction operation.

14. The blender and juicer system of claim 13, wherein the open top of the second blender container is configured to receive a cap.

15. The blender and juicer system of claim 14, wherein the cap is affixed to the open top of the second blender container via a fit selected from a group consisting essentially of a friction fit, a snap fit, and a thread fit.

16. The blender and juicer system of claim 14, wherein the cap is operatively affixed to the open top of the second blender container.

17. The blender and juicer system of claim 14, wherein the received cap is removable.

18. The blender and juicer system of claim 14, wherein the second blender container is configured for storage of blended contents when closed with the cap.

19. The blender and juicer system of claim 18, wherein the closed second blender container is configured to rest on the cap when not being used in conjunction with the blender base.

20. The blender and juicer system of claim 13, wherein the second blender container comprises a plurality of external ridges spaced symmetrically from each other.

21. The blender and juicer system of claim 20, wherein the second blender container utilizes the external ridges to stand upright on a substantially flat surface.

22. The blender and juicer system of claim 21, wherein the upright disposition of the second blender container allows users unimpeded access to its interior.

23. The blender and juicer system of claim 21, wherein each of the symmetrically spaced external ridges includes at least one arcuate portion.

24. The blender and juicer system of claim 23, wherein the arcuate portions are configured to prevent the second blender container from tipping when standing upright.

25. A blender and juicer system, comprising:
 a blender container having an open top and an open bottom;
 a removable juicer member, being hollow, having a top end and a bottom end, being open at each end, and being adapted for insertion into the blender container, the blender container being configured to prevent the over-insertion of the removable juicer member, and the inserted juicer member being configured to operatively engage the interior of the blender container;

a plunger adapted for insertion into the removable juicer member, the inserted plunger being utilized during a juice extraction operation;

means for defining the optimal range of plunger insertion into the removable juicer member; and

a set of elongated ridges being integrally formed on the interior of the blender container,

wherein the removable juicer member comprises an outer lip at one end,

wherein the outer lip includes a plurality of indentations configured to removably engage the set of elongated ridges,

wherein the blender container comprises an internal step to prevent the over-insertion of the removable juicer member, the internal step being adapted to support the outer lip upon engagement of the elongated ridges by the indentations,

wherein the removable juicer member comprises a funnel at another end, the funnel having a convex curvature, wherein the optimal range defining means includes a top exterior lip on the plunger,

wherein the top exterior lip is adapted to contact the interior of the funnel and prevent the plunger from advancing further into the removable juicer member during the juice extraction operation,

wherein the removable juicer member further comprises a filter disposed between the outer lip and the funnel, wherein the filter comprises a wire mesh screen material, wherein the open top of the blender container is removably coupled with a first lid member, the first lid member having a partially open configuration,

wherein the partially open first lid member is configured to allow the plunger to advance into the removable juicer member during a juice extraction operation,

wherein the partially open first lid member is closed by a second lid member,

wherein the plunger has a partially hollow configuration, wherein the open bottom of the blender container is removably coupled with a removable base portion incorporating a blade member adapted to agitate the contents of the blender container,

wherein the blade member is operatively coupled with an impeller which is powered by a blender motor,

wherein the filter has a multi-panel sieve configuration, wherein the removable juicer member includes a substantially tubular body of variable diameter,

wherein the multi-panel sieve filter substantially conforms to the shape of the tubular body,

wherein each one of the elongated ridges has a substantially triangular cross-section which flares toward the removable base portion, and

wherein the removable juicer member is configured to trap internally pulp remaining after a juice extraction operation.

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